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DATE MAILED: 10/19/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,944	06/01/2001	Michael I. Catherwood	18153.0040	8704
31625 7	590 10/19/2004		EXAMINER	
BAKER BOTTS L.L.P.			DO, CHAT C	
PATENT DEPARTMENT 98 SAN JACINTO BLVD., SUITE 1500			ART UNIT	PAPER NUMBER
AUSTIN, TX			2124	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	1				
0.65	09/870,944	CATHERWOOD, MICHA	EL I.				
Office Action Summary	Examiner	Art Unit					
	Chat C. Do	2124					
The MAILING DATE of this communication a Period for Reply	appears on the cover shee	t with the correspondence address -					
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by stated and the second of	N. 1.136(a). In no event, however, ma reply within the statutory minimum of iod will apply and will expire SIX (6) I tute, cause the application to becom	y a reply be timely filed  thirty (30) days will be considered timely.  MONTHS from the mailing date of this communicate ABANDONED (35 U.S.C. § 133).	ation.				
Status							
1) Responsive to communication(s) filed on 19	9 July 2004.						
	his action is non-final.						
	_						
Disposition of Claims							
4) Claim(s) 1 and 3-5 is/are pending in the approach 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed.  6) Claim(s) 1 and 3-5 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and complete to the specification is objected to by the Exameter 1.5 is/are pending in the approach 2.5 is/ar	drawn from consideration.						
10) The drawing(s) filed on is/are: a) a	accepted or b) objected	to by the Examiner.					
Applicant may not request that any objection to t	• , ,						
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	·	• • •	• •				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Burn * See the attached detailed Office action for a least	ents have been received. ents have been received i riority documents have be eau (PCT Rule 17.2(a)).	n Application No een received in this National Stage					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 7/19/04	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152) 					

#### DETAILED ACTION

- 1. This communication is responsive to Amendment filed 07/19/2004.
- 2. Claims 1 and 3-5 are pending in the application. Claim 1 is independent claim. In Amendment, claims 1 and 3-5 are amended and claims 2 and 6-7 are cancelled. This action is made non-final.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida et al. (U.S. 4,945,507).

Re claim 1, Ishida et al. disclose in Figures 1-2 a system for overflow (34 as overflow detection and prevention) and saturation processing (28, 32, 22 in Figure 1 as saturation selection operands) comprising: an adder (10), operatively connected to receive first (12) and second operands (16), and connected to add the operands to produce a result of the added operands (22); an accumulator (46), operatively connected to store at least a portion of the result of the added operands (least 20 bits input into 48) or at least a portion of a selected one of predetermined constants (from either 28 or 32 when saturate encountered) based on control signals (42 and 40); guard bits (D22 and D23 in Figure 2),

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operatively connected to store the remaining portion of the result of the added operands (the most significant bits of output of adder 10) or the remaining portion of the selected one of predetermined constants based on the control signals (when feedback of accumulate); overflow logic (34) operatively connected to the accumulator and to the guard bits so as to indicate overflow of the accumulator (output of 34 as 42 and 40); and saturation logic (28, 32, 22, and 24), operatively connected to the adder (10), to the guard bits (Figure 2), and connected to provide the control signals based on at least a portion of the result of the added operands and at least a portion of the guard bits (Figure 2 particularly 66) for comparing most significant bits of the guard bits and most significant bit of the result of the added operands and for generating the control signals (42 and 40) in accordance with the comparison.

Re-claim 3, Ishida et al. further disclose in Figures 1-2 the saturation logic includes a selector (24) operatively connected to selectively provide a one of the result of the added operands or a one of the predetermined constants based on the comparison (either from 28, 32, or 22).

Re claim 4, Ishida et al. further disclose in Figures 1-2 the logic means includes means (34) for providing the control signals in accordance with an enable signal and in accordance with the comparison (42 and 40).

Re claim 5, Ishida et al. further disclose in Figures 1-2 the logic means responsive to the comparison (34 and Figure 2 in particular with part 66), for selectively providing the control signals (42 or 40) so that the accumulator stores at least a portion of the result of the added operands and the guard bits store the remaining portion of the result of the

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added operands (if no overflow), or the accumulator stores at least a portion of a predetermined constant and the guard bits store the remaining portion of the predetermined constant (otherwise the content of either 28 or 32 is stored depending on the direction control signal).

### Response to Arguments

- 5. Applicant's arguments with respect to claims 1 and 3-5 have been considered but are most in view of the new ground(s) of rejection.
- 6. The applicant is noticed that the footnote in every page of the last response has different application No. 09/870,463.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Chat C. Do Examiner Art Unit 2124

October 5, 2004

ÄNIL KHATRI PRIMARY EXAMINER